# 1 2 JUN 1964

MEMORANDUM FOR:	(See Distribution List)	
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FROM:	Chief, Strategic Resources Division Office of Global Issues	,
SUBJECT:	An Update on Soviet Grain Crop Conditions	25X
on the same subj the summer shoul significantly al	ached analysis updates our memorandum of 29 May ect. Additional memoranda will be issued through dabrupt changes in the weather in the USSR ter our assessment of crop conditions. An in-deficient grain production and the expected economic the USSR and world grain markets will be public	epth mic 25X1
in July.		25X1
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Branch, Strategi	ic Resources Division, Office of Global Issues.	25X1
2 Comment	ts and questions are welcome and may be addresse cultural Assessments Branch,	d to 25X
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Attachment:		25X
USSR: An Upd	ate on the 1984 Grain Crop	25X
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SUBJECT: An Update on Soviet Grain Crop Conditions	25X1
OGI/SRD/AAB/ (12 June 84)	25X1
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### DIRECTORATE OF INTELLIGENCE

# 1 2 JUN 1984

USSR: An Update on the 1984 Grain Crop

# Summary

Drought in the lower and middle Volga Valley and parts of
the Central Black Earth, North Caucasus, Volga Vyatka and western
Kazakhstan regions has eliminated Moscow's chances for an above-
average crop this year. However, large areas of the USSR are not
moisture deficient. We estimate that about two thirds of the
total grain crop has fair to excellent soil moisture reserves and
we continue to believe grain production could go as high as 200
million tons, given ideal weather for the remainder of the crop
season.

This memorandum was prepared by  Agricultural Assessments Resources Divison, Office of Global Issuedirected to  Chief, Strategic	Branch, Strategic es. Comments may be Resources Division, on	25X 25X 25X 25X
GI M 84-10109		25X

## USSR: An Update on the 1984 Grain Crop

While early drought in a key portion of the Soviet grain region precludes an above-average grain crop this year, we believe that press predictions of another disastrous crop shortfall for the country as a whole are premature. Although the drought intensified during most of May because of a stationary high pressure system over the Volga Valley, showers in portions of the afflicted area in late May and early June signaled the breakdown of this system. Weather conditions have also improved throughout the remainder of the USSR in recent weeks. Hence, even with the serious winter grain losses already experienced, total grain production in 1984 could yet reach 200 million metric tons.

## Grain Crop Developments to Date

Winter Grains. The high pressure ridge which intensified the drought in the lower and middle Volga Valley and parts of the Central Black Earth, North Caucasus, Volga Vyatka and western Kazakhstan regions in early-to-mid May has weakened considerably. Scattered showers have been falling in the region over the last three weeks. However, the continuous hot dry weather which had plagued the region for at least the previous 10 weeks greatly reduced the yield potential of many winter grainfields and will keep production there much below normal.

The negative prospects of the Valley and adjacent regions are in contrast to the improved soil moisture conditions prevailing in the Ukraine, Belorussia, Moldavia, and Krasnodar in the North Caucasus. Ample precipitation in these areas during the late spring replenished scanty soil moisture reserves caused by a dry fall, winter and early spring. The Baltic republics are also in excellent condition. Landsat and reconnaissance imagery, combined with agricultural attache reporting, corroborate the good to excellent growing conditions there (see table 1). (S NF)

With the return to more normal weather in these areas, we estimate that a winter grain harvest of 60-65 million tons is likely. A crop of this size would be 5-10 million tons larger than the estimated annual output of 55 million tons averaged during 1979-83.

Spring Grains. The rainshowers of late May and early June in the Volga Valley and adjacent regions probably did not cover

1 Throughout this parage crop or "a	paper, unless stated otherwise, the terms average production" refer to the 1976-80	
period average.		

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large enough areas to reverse the effect of the drought on emerging spring grains nor replenish subsoil moisture reserves. Where they occurred, the rains probably have halted, at least temporarily, further deterioration of the crops. We expect that the weakening of the high pressure system presages a weather change in the droughty areas. But even if the weather returns to normal for the rest of the growing season, we expect the spring grains that have survived will do poorly in the drought-affected areas, primarily because low subsoil moisture reserves will make them more susceptible to damage during the heat of the summer.

Outside the drought area, analysis of Landsat imagery and weather data indicates that prospects for the spring grains have improved. Soil moisture conditions in the larger producing oblasts in Kazakhstan and Siberia are good to excellent. The Soviets report that in Kazakhstan sowing plans have been overfulfilled, more grain area has been fertilized than ever before, and grain has been sown on a larger percentage of fallow land. Kazakhstan and Siberia produce approximately half of all the spring grains and, given normal weather for the remainder of the season, we expect above-average production from these regions. Soil moisture reserves are also high in the spring grainfields of the Ukraine, Belorussia, and the Baltics. Reserves are fair in the Central Black Earth and Urals regions (see table 1).

We estimate that spring grains have been sown on approximately 90 million hectares. As the crop is only now emerging in most areas, however, it is too early to definitively estimate spring grain production.

#### The Outlook

Although weather in the droughty areas could continue to improve, in our judgement most of the winter and spring grain production in the lower Volga valley, about 5 million tons in an average year, has been lost. In addition, much of the damage done by the drought to spring grains elsewhere is irreversible, but it will be several weeks before we can accurately assess the extent of the damage. The spring grains will remain particularly susceptible to damage during the remainder of the season.

On the positive side, prospects for about two-thirds of the crop have improved in recent weeks and we continue to believe that a grain crop as high as 200 million tons is possible if ideal growing conditions prevail through the summer.

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Table 1

USSR: Soil Moisture Conditions of Grain Areas As of 31 May 1984

Region	Percent of Total USSR	Percent of Grain Area in Soil Moisture Class <sup>2</sup>		
	Grain Production <sup>1</sup>	Poor	Fair	Good
Northwest	0.7	0	35	65
Central	5.4	32	, 39	29
Volga-Vyatka	. 2.3	88	12	0
C. Black Earth	5.9	41	50	9
Volga N. Caucasus:	13.0	83	16	1
Krasnodar N. Caucasus:	3.8	11	11	78
Remainder	4.9	50	28	22
Urals	6.1	37	31	32
W. Siberia	8.3	10	30	60
E. Siberia	3.2	0	0	100
Ukraine	22.4	13	20	67
Kazakhstan <sup>3</sup>	13.1	41	41	18
Belorussia	3.1	0	14	86
Baltiçs	2.6	4	34	62
Other <sup>4</sup>	3.5	Not Monitored		
USSR	100	32	28	40
l 1971-1980 estim	ated average.			25X1
2 Poor is defined	as 0-40% of plant availa	able soil m	oisture in	
the first meter of is 60-100%.	the soil profile; fair	is defined	as 40-60%; goo	d 25 <b>X</b> 1
15 60-100%.				23/1
3 Soil moisture i	s usually relatively low	at this ti	me of year.	
Kazakhstan receive	s most of its precipitat	ion during	June and July.	
				25X1
4 Includes Centra	l Asia and Transcaucasus	Republics	with relatively	У
stable production	from vear-to-vear			25 <b>X</b> 1

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